

Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_

## Module 2: Correctives

### Section 2:1 Estimate percent of a number and solve percent problems

---

ESTIMATE each.

1) 41% of 5000

2) 78% of 620

3) 56% of 425

Solve each using a proportion or an equation. If necessary, round to the nearest hundredth.

4a. 36 is 17% of what?

4b. 19 is what percent of 78?

4c. What is 45% of 17?

4d. 117 is 23% of what number?

4e. Find 12% of 997.

4f. 33 is what percent of 24?

## **Section 2:2 Sale Price and Percent of Change**

---

**Find sale price or the percent of change for the following. If necessary, round to the nearest hundredth.**

**5) A butcher shop purchases pork chops for \$1.29 per pound and marks up the price to \$2.39 per pound for resale. Find the percent of markup.**

**6) The population of Franklin in 1992 was 19,100 people. In 2006, the population had risen to 33,000. What is the percent of change in Franklin's population?**

**7) An Teddy Bear costing \$32.85 is discounted 35%. Find the sale price of the Teddy Bear.**

**8) Ed had a Brett Favre rookie card that he purchased for \$22. It was projected to increase in value to \$125 when Brett Favre retires. If the projection is correct, what is the percent of increase of the value of his card?**

**9) Dawn found a Dale Earnhardt Jr. jacket she liked for \$98.95. The store advertised a sale. All jackets were discounted 40%. Calculate the sale price of the jacket.**

### Section 2:3 Probability

---

A bag contained several pieces of bubble gum. There were 4 white pieces, 5 pink pieces, 3 blue pieces, 7 green pieces, and 1 yellow piece.

10) What is the probability of picking a pink piece from the bag?

11) If a pink piece is drawn by the first person (who then eats the bubble gum), what is the probability that the next person will pick a green piece of bubble gum?

12) If all pieces of bubble gum are in the bag and you are to draw 2 pieces from the bag, decide if the events listed below are Dependent or Independent. Explain your answer in a complete sentence. The bubble gum is not replaced after each pick.

Event 1: The first piece of bubblegum picked is white.

Event 2: The second piece of bubble gum picked is blue.

Jeremy rolled a number cube several times and recorded the results in the table below.

1	2	3	4	5	6
4times	2 times	4 times	5 times	3 times	2 times

13) What is the experimental probability of rolling a 4?

**14) Sheila is going to a party and cannot decide what to wear. She has narrowed it down to a few options. Sheila has a pair of jeans and a black skirt. She has a red sweater and a pink t-shirt. Sheila has black boots or silver slides. Draw a tree diagram to show all possible outfits Sheila could wear.**

**15) What is the theoretical probability that Sheila will wear her jeans with boots?**

## Section 2:4 Integer Operations

---

Evaluate each. YOU MAY **NOT** USE A CALCULATOR!!

16)  $329 + (-456)$

17)  $26 - (-15)$

18)  $48 + (-36)$

19)  $-37 - (-64)$

20)  $-74 + 46 - (-33)$

21)  $-541 - (-214)$

22)  $-15 \times 12$

23)  $-168 \div (-14)$

24)  $-61 \times (-16)$

25)  $56 \div (-7)$

26)  $-24 \div (-3) \times (-2) + (-15)$

27) Simplify  $|-32|$

28) What is the difference between opposite and absolute value? Write your answer in a complete sentence.